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🔍 Title: **JP2001060464A2: ELECTROLYTIC SOLUTION FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING SAME**

🔍 Country: **JP Japan**

🔍 Kind: **A2 Document Laid open to Public inspection <sup>1</sup>**

🔍 Inventor: **NARUOKA YOSHINORI;**

🔍 Assignee: **JAPAN STORAGE BATTERY CO LTD**  
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🔍 Published / Filed: **March 6, 2001 / Aug. 20, 1999**

🔍 Application Number: **JP1999000234400**

🔍 IPC Code: **H01M 10/40;**

🔍 Priority Number: **Aug. 20, 1999 JP1999000234400**

🔍 Abstract:

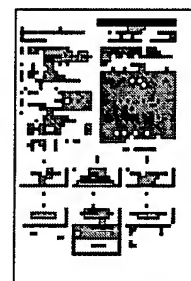
PROBLEM TO BE SOLVED: To manufacture a safer nonaqueous electrolyte secondary battery by providing an electrolytic solution improved in thermal stability.

SOLUTION: An electrolytic solution with lithic salt dissolved therein for a nonaqueous electrolyte secondary battery contains a fluorine-based surfactant excellent in chemical and thermal stability 1.0-10.0 wt.%, and preferably, 1.2-5.0 wt.%. As the fluoric surfactant, for example, a perfluoroalkylpolyoxyalkylene alcohol, a perfluoroalkyl alkoxylate, a fluorinated alkyl ester, and a perfluoroalkylsulfonate, can be used. It is preferable to use a fluorinated alkyl ester having high thermal stability and having no flash point.

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🔍 Family: **None**

🔍 Other Abstract Info: **CHEMABS 134(14)195770S CHEMABS 134(14)195770S**



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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **11234400**(51) Intl. Cl.: **H01M 10/40**(22) Application date: **20.08.99**

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states:(71) Applicant: **JAPAN STORAGE BATTERY CO  
LTD**(72) Inventor: **NARUOKA YOSHINORI**

(74) Representative:

**(54) ELECTROLYTIC  
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ELECTROLYTE  
SECONDARY BATTERY AND  
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